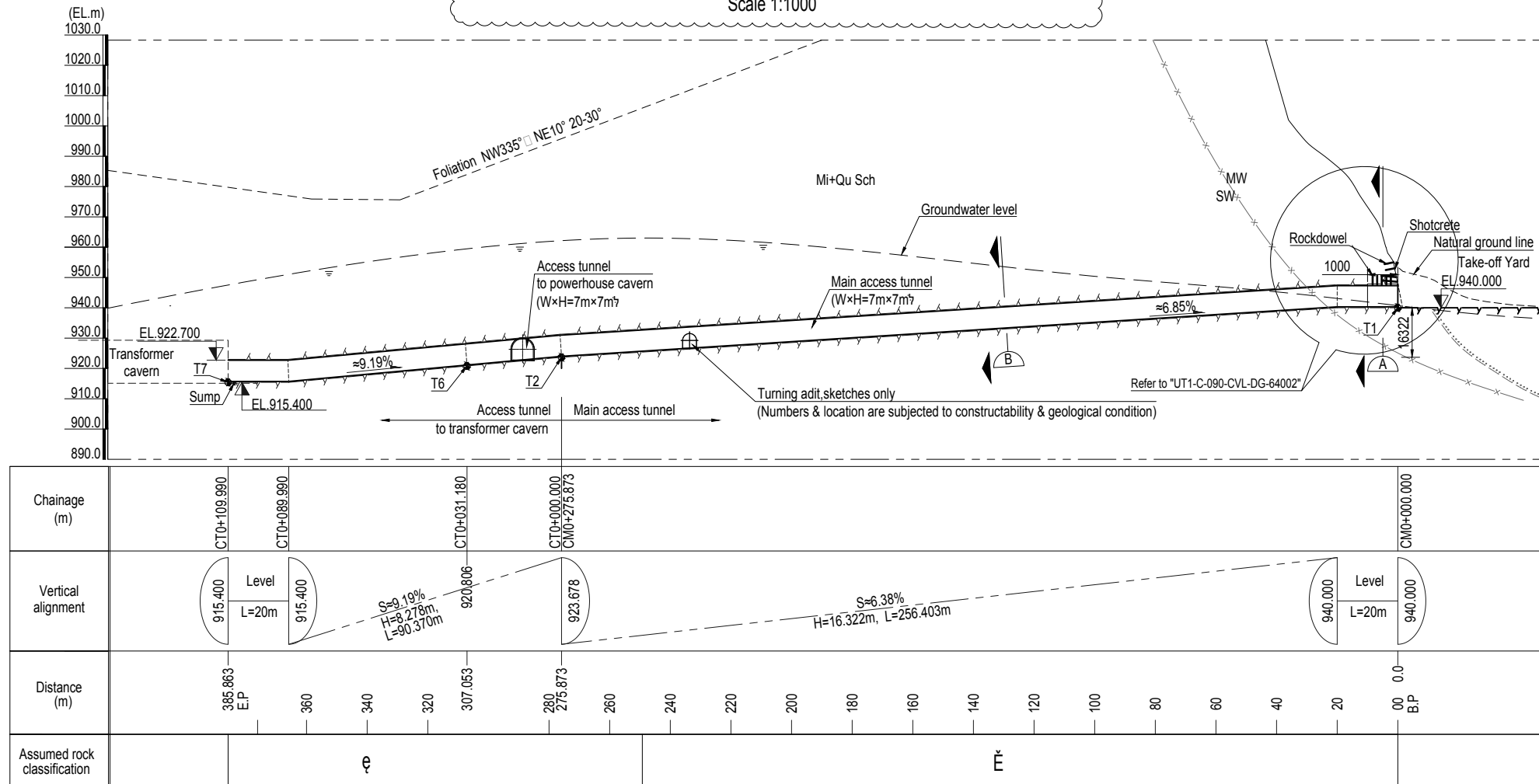


LONGITUDINAL PROFILE OF MAIN ACCESS TUNNEL TO TRANSFORMER CAVERN

Scale 1:1000



NOTE

- All dimensions are in millimeters, and coordinates, chainages & elevations are in meters.

Scale:

1:1000 0 10 20 30 40 50m

1:100 0 1 2 3 4 5m

REFERENCE DRAWINGS

UT1-C-300-CVL-DG-40001	GENERAL LAYOUT DRAWING OF POWERHOUSE AREA
UT1-C-090-CVL-DG-64002	EXCAVATION AND SUPPORT DRAWING OF ACCESS TUNNEL TO THE POWERHOUSE

SYMBOL AND LEGEND

FOR APPROVAL

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REV. NO.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
OC	27.MAY.2022	Third issue	WANG X.H.	K. J. KIM	Y. S. SON
OB	06.MAY.2022	AS RN-0076	WANG X.H.	K. J. KIM	Y. S. SON
OA	28.JUL.2021	First issue	ZHANG J.Q.	K. J. KIM	Y. S. SON

PROJECT TITLE

Upper Trishuli-1 HEP (216MW)

OWNER



OWNER'S ENGINEER



CONTRACTOR

DOOSAN Enerbility

DRAWING TITLE

LAYOUT OF MAIN ACCESS TUNNEL TO POWERHOUSE (2/3)

INDEX	DRAWING NUMBER	SHEET NO.	REV. NO.
A	UT1-C-090-CVL-DG-64001	2 OF 3	OC

COORDINATES OF CONTROL POINT

Point No.	Coordinates			Remark
	E(m)	N(m)	Z(m)	
W10	619126.258	3107206.255		Centerline of vertical pressure shaft
W15	619078.651	3107046.174	906.000	Centepoint of unit 1#
T1	618776.979	3106769.119	940.000	Portal of access tunnel
T2	618927.283	3107000.451	923.678	Plane turning point of access tunnel to transformer cavern
T3	618955.564	3107043.980	920.368	Plane turning point of access tunnel to powerhouse cavern
T4	618982.063	3107057.605	918.380	Plane turning point of access tunnel to powerhouse cavern
T5	619050.048	3107054.561	915.400	Intersection of access tunnel and powerhouse cavern
T6	618953.781	3107014.076	920.806	Plane turning point of access tunnel to transformer cavern
T7	619032.362	3107010.558	915.400	Intersection of access tunnel and transformer cavern

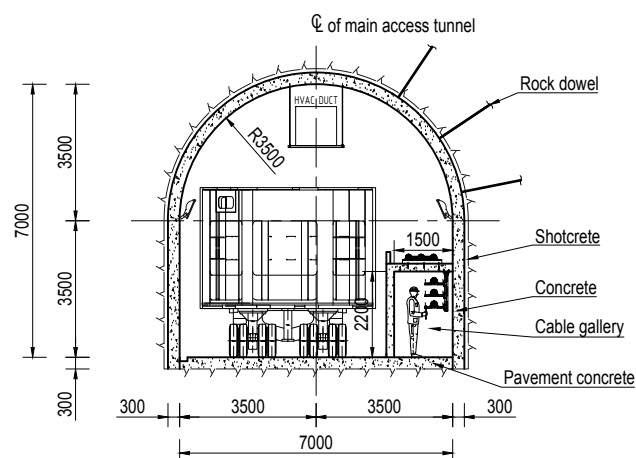
OCCURRENCE OF JOINTS

Joint No.			
J1(foliation)	340°	20°	
J2	235°	70°	N3°E
J3	25°	60°	

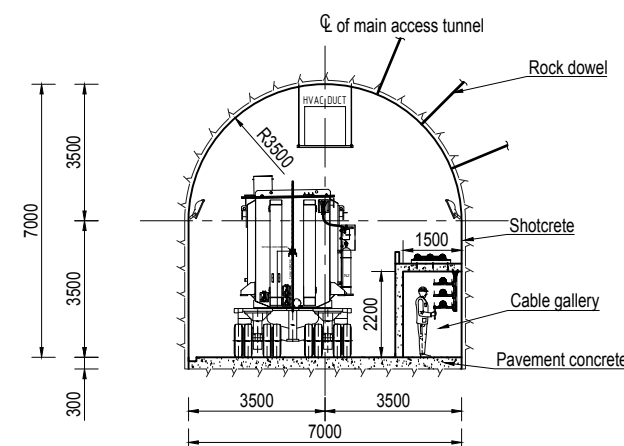
MECHANICAL PARAMETER OF JOINTS

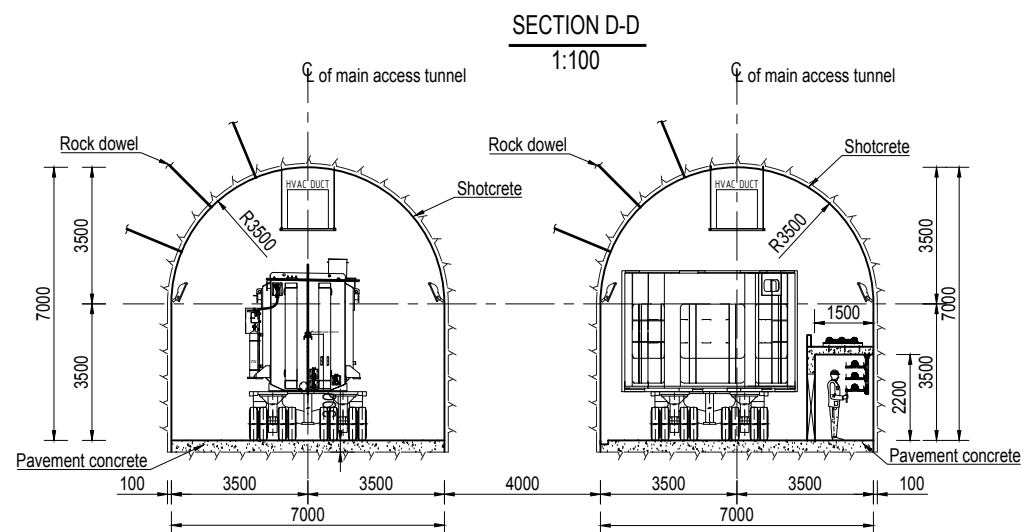
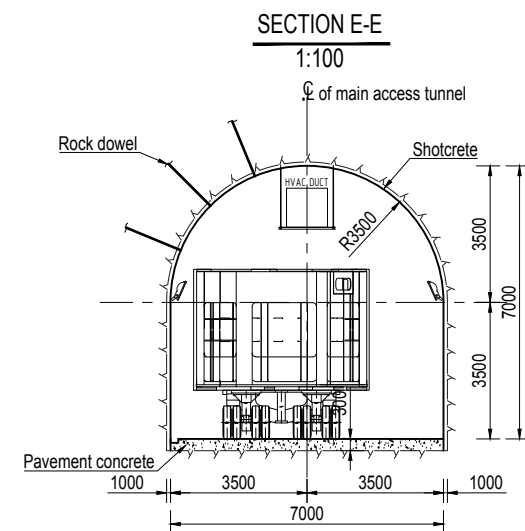
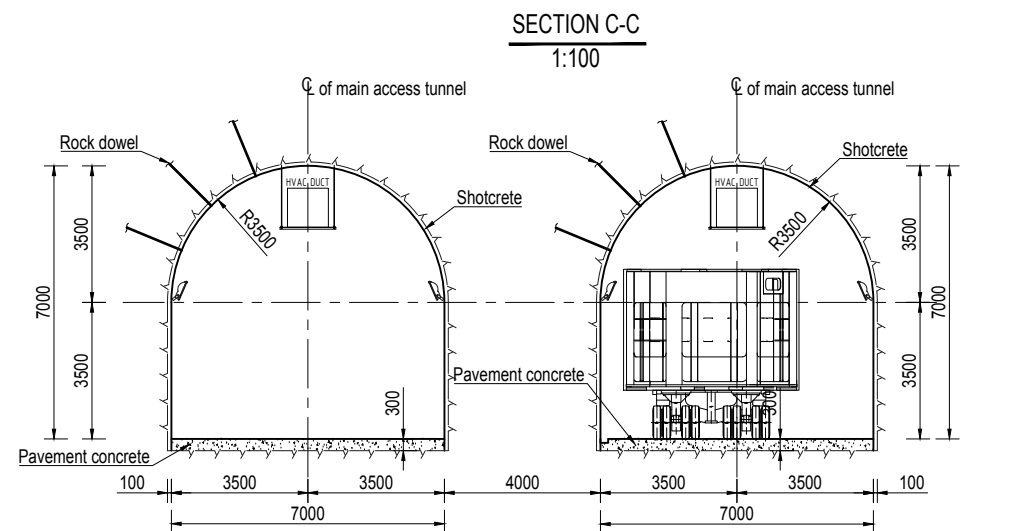
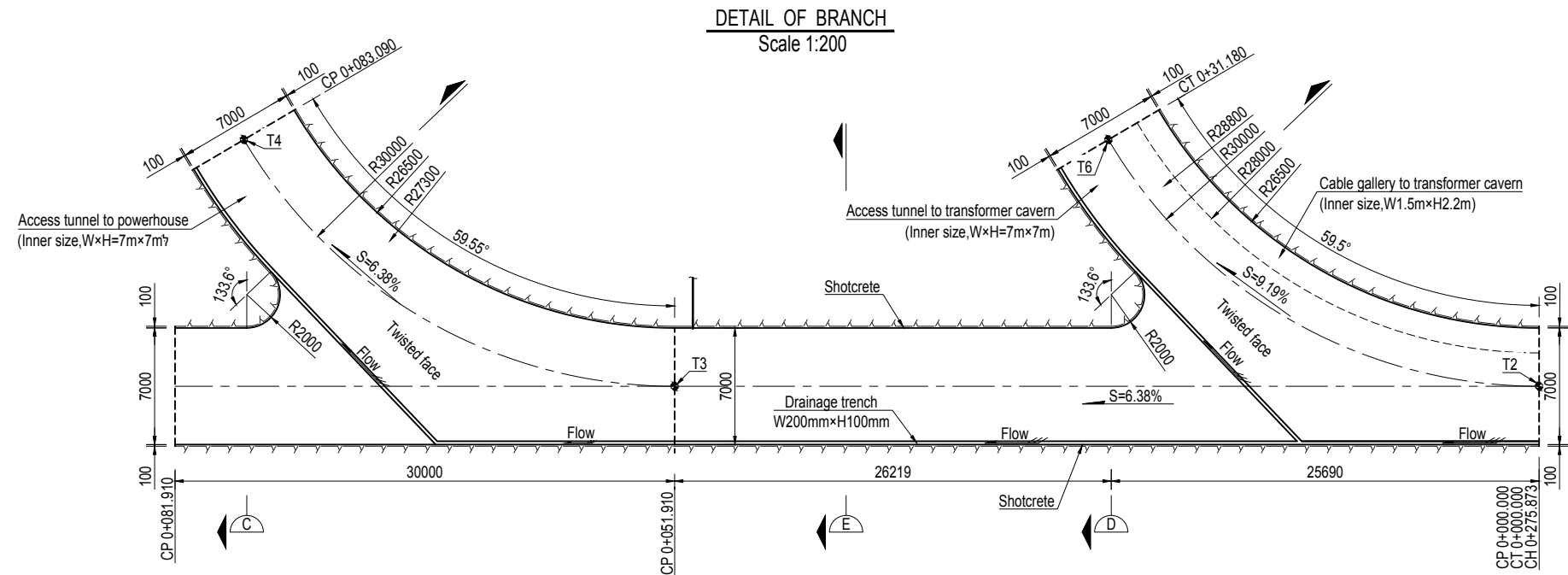
Joint type	JRC	JCS, γ MPa	C, γ MPa	Φ, γ °
Foliation	6	70	0.20	35.0
Lithoclasts cemented(J2& J3)	8	50	0.15	28.8

SECTION A-A (FOR PORTAL AND ROCK IV) 1:100



SECTION B-B (FOR ROCK I, II, III) 1:100

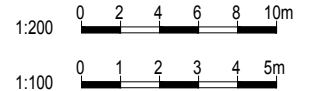




NOTE

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Scale:



REFERENCE DRAWINGS

UT1-C-300-CVL-DG-4001	GENERAL LAYOUT DRAWING OF POWERHOUSE AREA
UT1-C-090-CVL-DG-64002	EXCAVATION AND SUPPORT DRAWING OF ACCESS TUNNEL TO THE POWERHOUSE

SYMBOL AND LEGEND

FOR APPROVAL

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PROJECT TITLE

Upper Trishuli-1 HEP (216MW)

OWNER **NWEDC**
NEPAL WATER AND ENERGY DEVELOPMENT CO. (PVT.) LTD.

OWNER'S ENGINEER **TRACTEBEL** **Jade CONSULT**

CONTRACTOR **DOOSAN Enerbility**

DRAWING TITLE

LAYOUT OF MAIN ACCESS TUNNEL TO POWERHOUSE (3/3)

INDEX	DRAWING NUMBER	SHEET NO.	REV. NO.
A	UT1-C-090-CVL-DG-64001	3 OF 3	OC